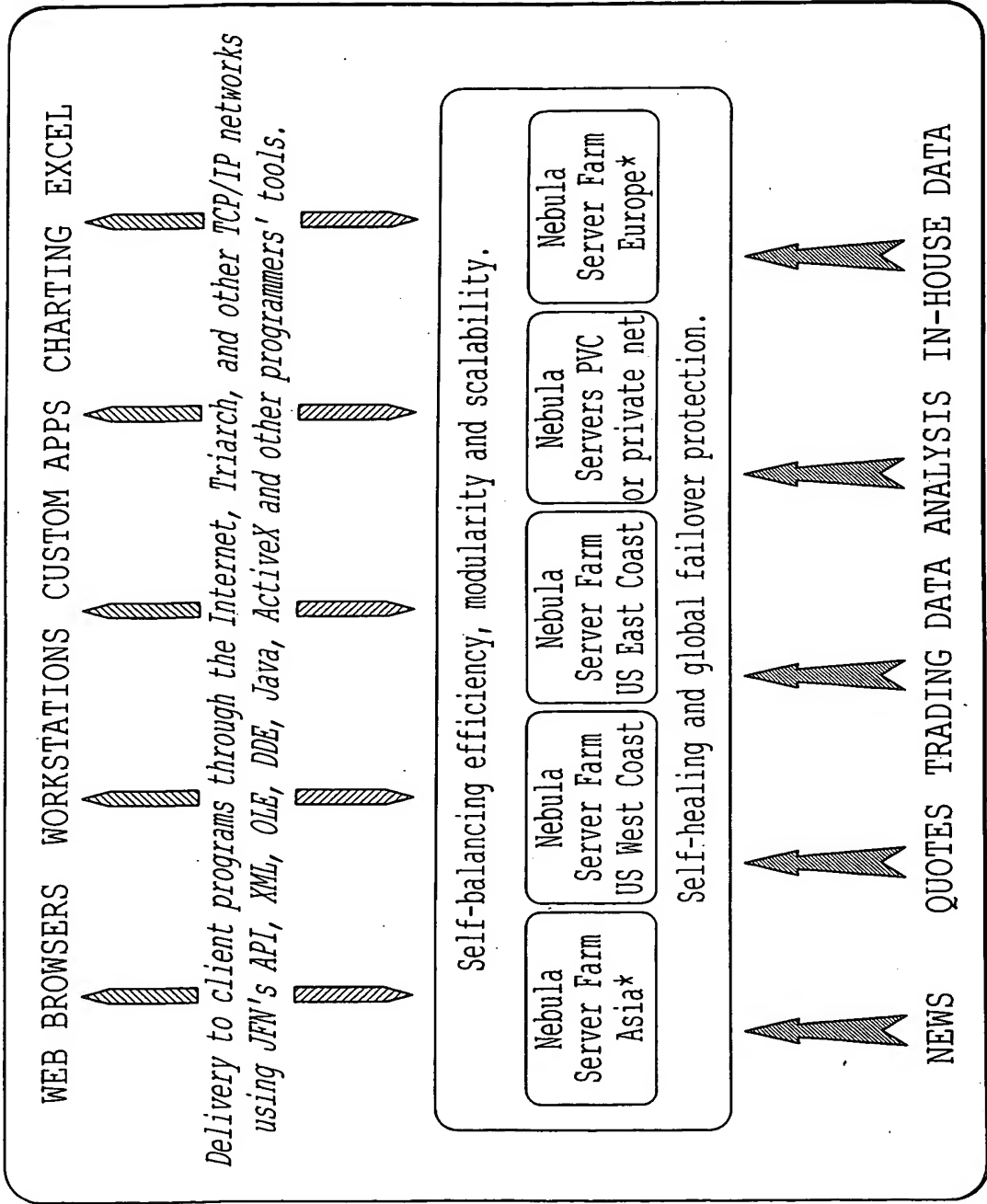


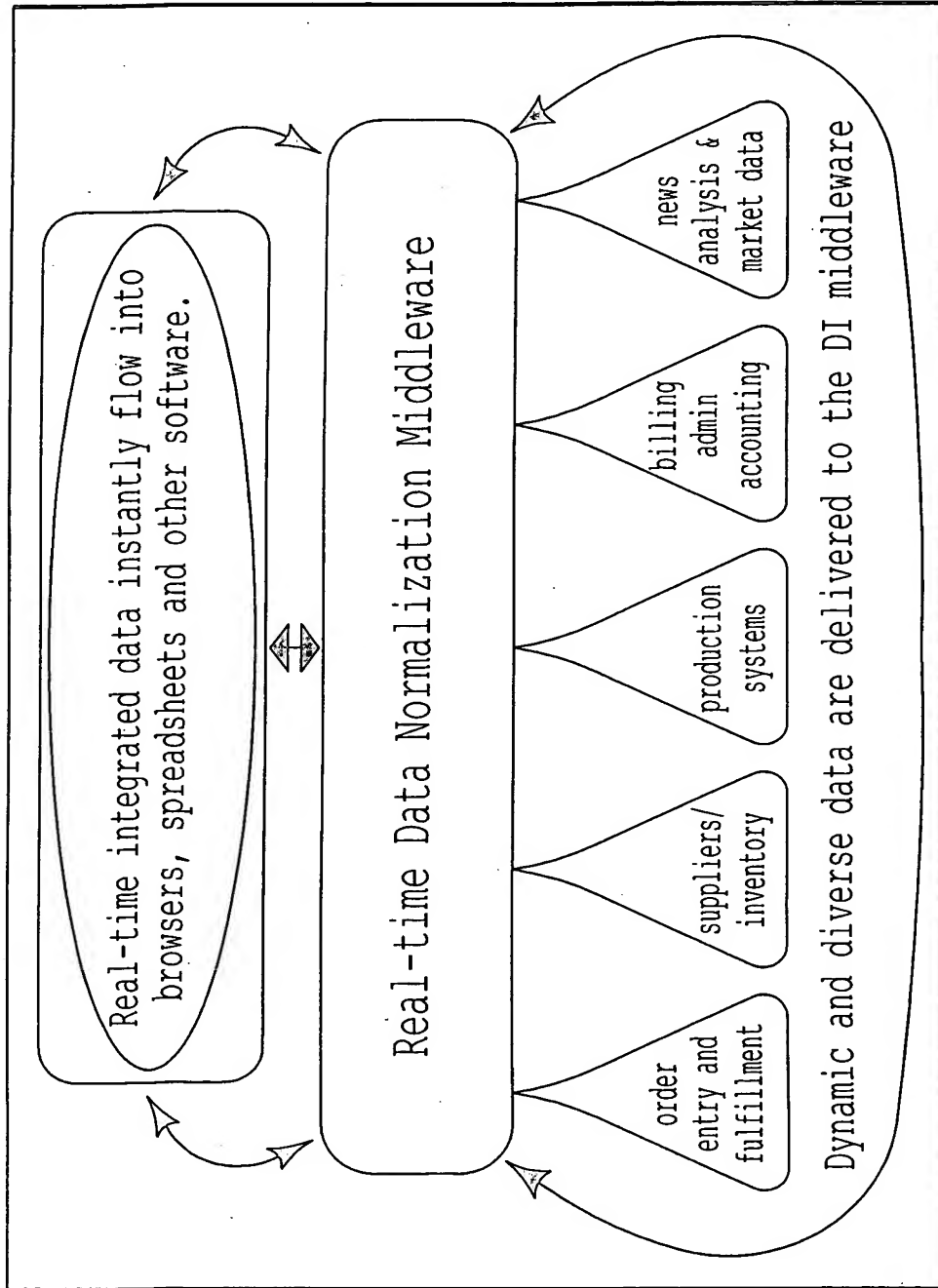
FIG. 2



MARKET DATA PROVIDERS COOPERATIVELY COMBINE AND SELL THEIR DATA
THROUGH JFN'S NEBULA MIDDLEWARE TO MULTIPLE CLIENT PROGRAMS ON
THE INTERNET AND PRIVATE NETWORKS.

FIG. 3

REAL-TIME DATA INTEGRATION WITH DI MIDDLEWARE



DI middleware dynamically integrates corporate data with data from outside sources through the Internet, extranets, wide area networks and local area networks.

FIG. 4

```
<!-- XEBULA XML TAGSET -->
- <!-- -->
- <!-- CLIENT TO API -->
_ <DIGIGRATOR>
  _ <XEBULA>
    <LOGIN username="" password="" appkey="" ip="" port=""
      services= "on/off" diags= "on/off" />
    <LOGOUT />
    <SERVICE id="" source="" sourcetype="" type="" />
    <GETQUOTEINFO id="" source="" alias="" symbol="" state=""
      type="" />
  _ <GETQUOTE id="" source="" alias="" symbol="" state=""
    type="">
    <FIELD>name of field</FIELD>
  </GETQUOTE>
  _ <STARTQUOTE id="" source="" alias="" symbol="" state=""
    type="">
    <FIELD>name of field</FIELD>
    - <!-- ***deprecated*** -->
  </STARTQUOTE>
  <STOPQUOTE id="" />
  _ <GETHEADLINES source="" hours="" stories="" mrdate=""
    mrtime="">
    _ <NEWSCODES>
      <NEWSCODE type="">codetext</NEWSCODE>
    </NEWSCODES>
  </GETHEADLINES>
  <GETSTORY id="" source="" date="" time="">headline text
    of story to get</GETSTORY>
  <GETFIXEDPAGE id="" source="" page="" />
  <STARTFIXEDPAGE id="" source="" page="" />
  <STOPFIXEDPAGE id="" />
</XEBULA>
```

FIG. 5A

```
- <XEBULAINFO>
  <WHORU />
</XEBULAINFO>
- <XEBULAFILE>
  <SETFILE filename="">text to set</SETFILE>
  <GETFILE filename="" />
  <DELETEFILE filename="" />
  <GET DIR />
</XEBULAFILE>
- <!-- -->
- <!-- API TO CLIENT -->
- <XEBULA>
  <DIAG type="">(types-> error,connection,login,ack,nack,init)
    text of diagnostic</DIAG>
  <SERVICE id="" source="" sourcetype="" type="">"on" or
    "off"</SERVICE>
  <SESSION />
  <QUOTE id="" type="" field="" denom="">value/text of
    quote</QUOTE>
  <GETQUOTEEND id="" />
  <QUOTEINFO id="" source="" alias="" symbol="" state=""
    type="" />
  <QUOTEINFOEND />
- <HEADLINE source="" date="" time="" type="">
  headline text
  - <NEWSCODES>
    <NEWSCODE type="">codetext </NEWSCODE>
  </NEWSCODES>
</HEADLINE>
- <HEADLINECHANGE>
  - <HEADLINE source="" date="" time="" type="old">
    oldHeadlineText
  - <NEWSCODES>
```

FIG. 5B

```

    <NEWSCODE type="">codetext</NEWSCODE>
  </NEWSCODES>
</HEADLINE>
= <HEADLINE source="" date="" time="" type="new">
  newHeadlineText
  = <NEWSCODES>
    <NEWSCODE type="">codetext</NEWSCODE>
  </NEWSCODES>
</HEADLINE>
</HEADLINECHANGE>
<GETHEADLINESEND source="" />
= <STORY id="" date="" time="">
  story text
  = <STORYHEADLINE source="" date="" time="" type="">
    headline text
    = <NEWSCODES>
      <NEWSCODE type="">codetext</NEWSCODE>
    </NEWSCODES>
  </STORYHEADLINE>
</STORY>
= <FIXEDPAGE id="" row="" column="" type="">
  text to display
  <FPATTR start="" stop="" time="">name of
    attribute</FPATTR>
  </FIXEDPAGE>
</XEBULA>
= <XEBULAINFO>
  <TITLE>title</TITLE>
  <VERSION date="">version</VERSION>
  <COPYRIGHT>copyright</COPYRIGHT>
  <AUTHOR>name</AUTHOR>
</XEBULAINFO>

= <XEBULAFILE>
  <FILE filename="" found="yes/no">CDATA of text that was
    got</FILE>
  <DELETEFILE filename="" found="yes/no"/>
  = <DIR>
    <FILENAME>filename</FILENAME>
    <FILENAME>filename</FILENAME>
  </DIR>
</XEBULAFILE>
</DIGIGRATOR>
```

FIG. 5C

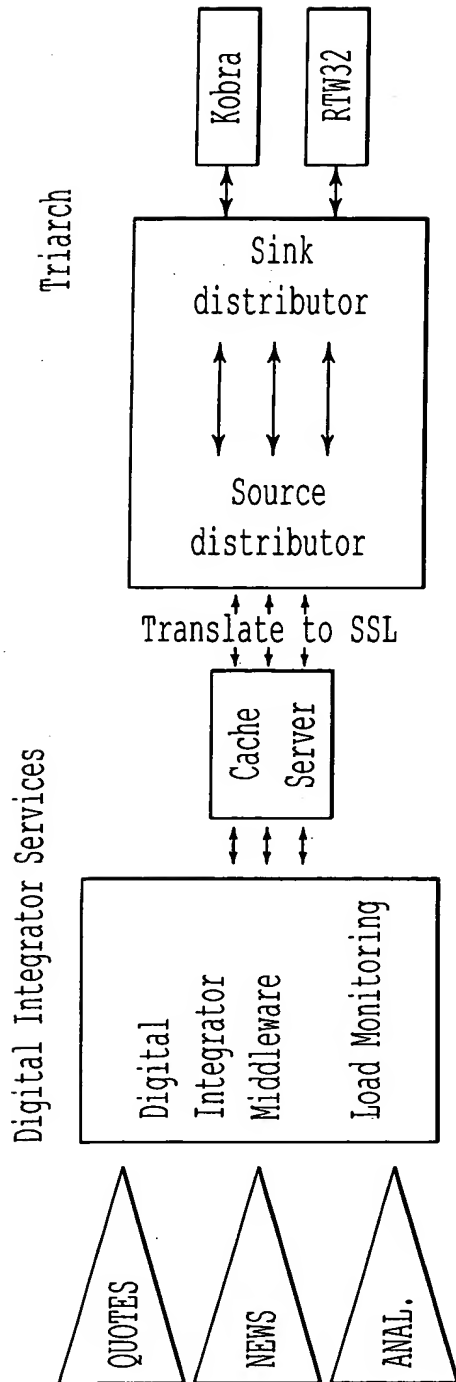


FIG. 6A

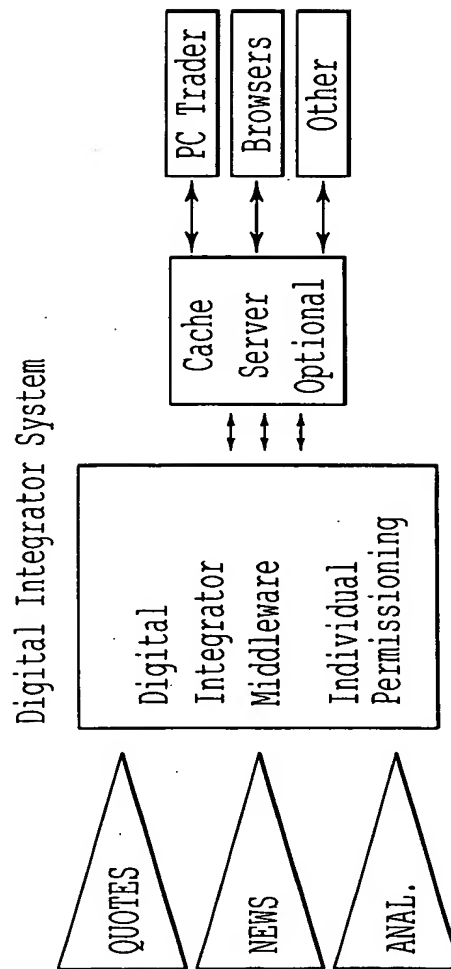


FIG. 6B

PC Trader

File Edit Search Page Window Help

W

Open Window

Quick Keys

Select Page

Print

Find

Home

Back

Forward

Stop

Refresh

Close

F2: MARKET SUMMARY

F3: NEWS

F4: BILLS

F5: COUPONS

F6: FOREX

F7: CBOT FINANCIAL FUTURES

F8: PC TRADER OLE

F9: BULLET POINTS

F10: EVANS REPO

TREASURY COUPONS

Maturity	Coupon	B-Bid	B-Yield	B-Ask	B-Size	Last	BYield	Chg
2Y	9/30/02	6.000	5.9390	100.036	15X11	100.03+	5.939	+002
5Y	5/15/05	6.750	5.8060	103.24+	1X6	103.24	5.806	+012
10Y	8/15/10	5.750	5.7760	99.26+	2X1	99.25+	5.776	-01
30Y	5/15/30	6.250	5.8250	105.315	**X**	105.28		-077

TREASURY BILLS

Maturity	B-Bid	B-Yield	B-Ask	B-Size	Last	BYield	Chg
3M	1/11/01	6.229	6.04+	45X10	6.04+	6.229	-040
6M	4/12/01	6.301	6.020	5X5	6.02+	6.301	-030
1Y	8/30/01	6.028	5.710	5X10	5.71+	6.028	-020

FOREX: SPOT

Symbol	Bid	Ask	Last 2	Hi	Low
EURUSD	0.8695	0.8701	0.8695	0.8760	0.8686
GBPUSD	1.4630	1.4638	1.4630	1.4656	1.4549
USDJPY	107.5800	107.6700	107.5800	108.0500	107.5900

STOCK INDICES

Symb	Chng	Last	Last 2	Last 3	Last 4	Volume
DJI	-106.82	10417.58	10417.48	10417.11	10417.48	3089
DJNZ	-073	10505.0	10510.0	10505.0	10510.0	
IQ X	-55.08	3110.98	3112.37	3114.33	3114.63	
NDOZ	-54.00	3150.00	3148.00	3147.00	3145.00	116
IN X	-4.49	1365.47	1365.61	1365.61	1365.63	

Bullet Points

[10/11/00 15:57:00]
EURO-DOLLAR: Pair recovering off its worst levels of the
Nasdaq trades withing 20 points of flat, arguably a pos
trader mentions the pair seems heavy at the figure, how
a decent offer in place.

CBOT-EUREX

Symb	Hi	Low	Bid	Ask	Size	Last	Time	Chng
TYOZ	100.25+	100.14			0X0	100.18	13.59	+05+
ZNOZ	100.21+	100.14+	100.19+	100.20	20X314	100.19+	14.56	+07
USOZ	99.16	99.00			0X0	99.06	14.00	+01
ZBOZ	99.11	99.00			0X0	99.09	14.57	+04

Real Time Headlines

BULLET: Correct previous item-Nasdaq off about 60 points...>
BULLET: EURO-DOLLAR: Pair recovering off its worst levels of...>
US TSYS END MIXED AS TRADERS EYE SUPPLY, STOCKS/ENERGY PRICES>
BULLET: US Agency FNNM reports following distribution on...>
BULLET: LOOK AHEAD : U.S. event calendar for Thursday kicks...>
BULLET: STOCKS: Of note, Bridge carrying a statement from...>
BULLET: Fed country risk exposure survey shows surge in bank...>
BULLET: Fed country risk exposure survey shows surge in bank...>
Market News International Menu of European Features<MNI>
BULLET: Fed officials say the labor mkt might not be as...>

Real Time Headlines

MARKET SUMMARY (F2)

1:00 PM, 10/11

FIG. 7

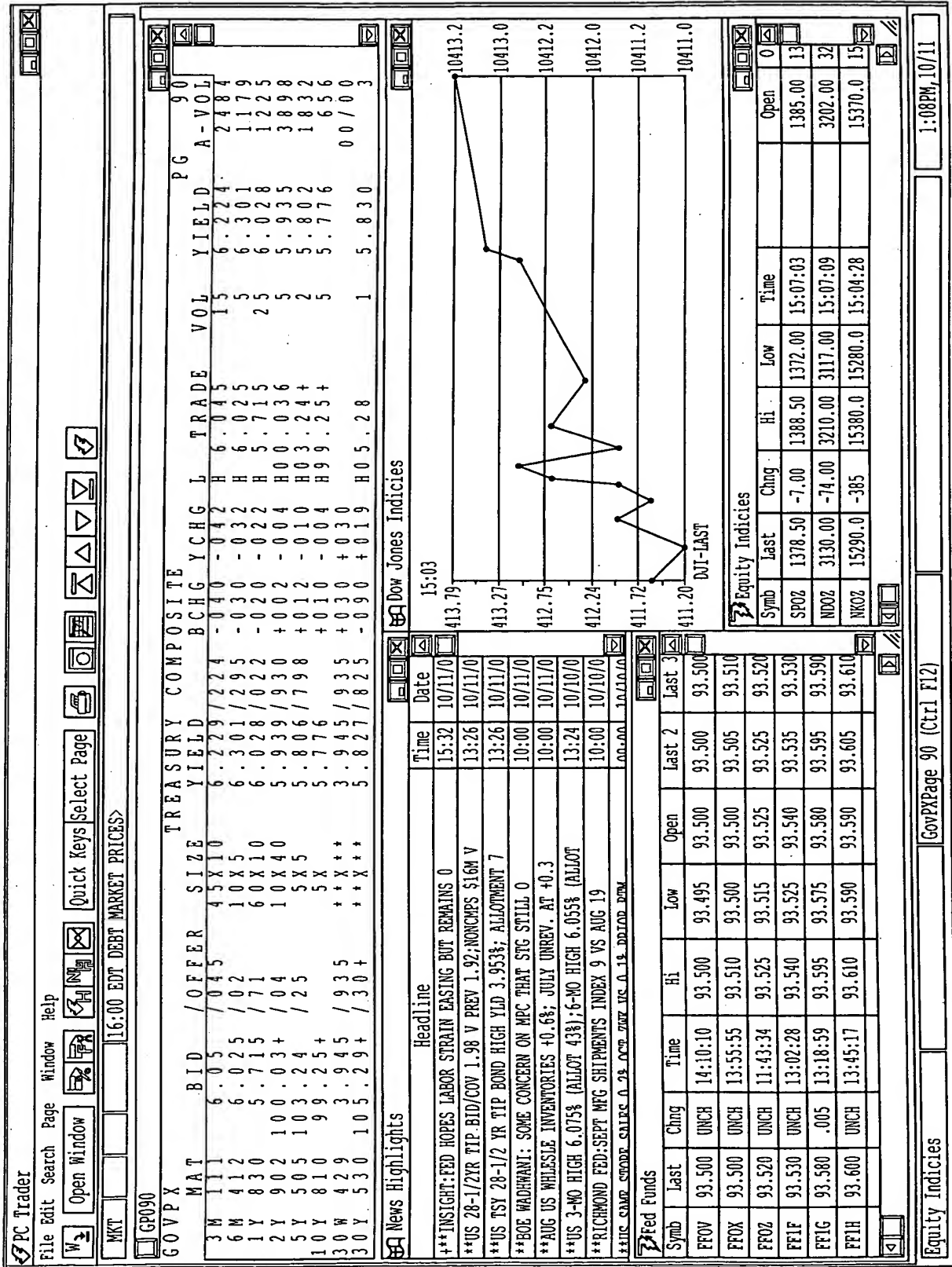


FIG. 8

FIG. 9

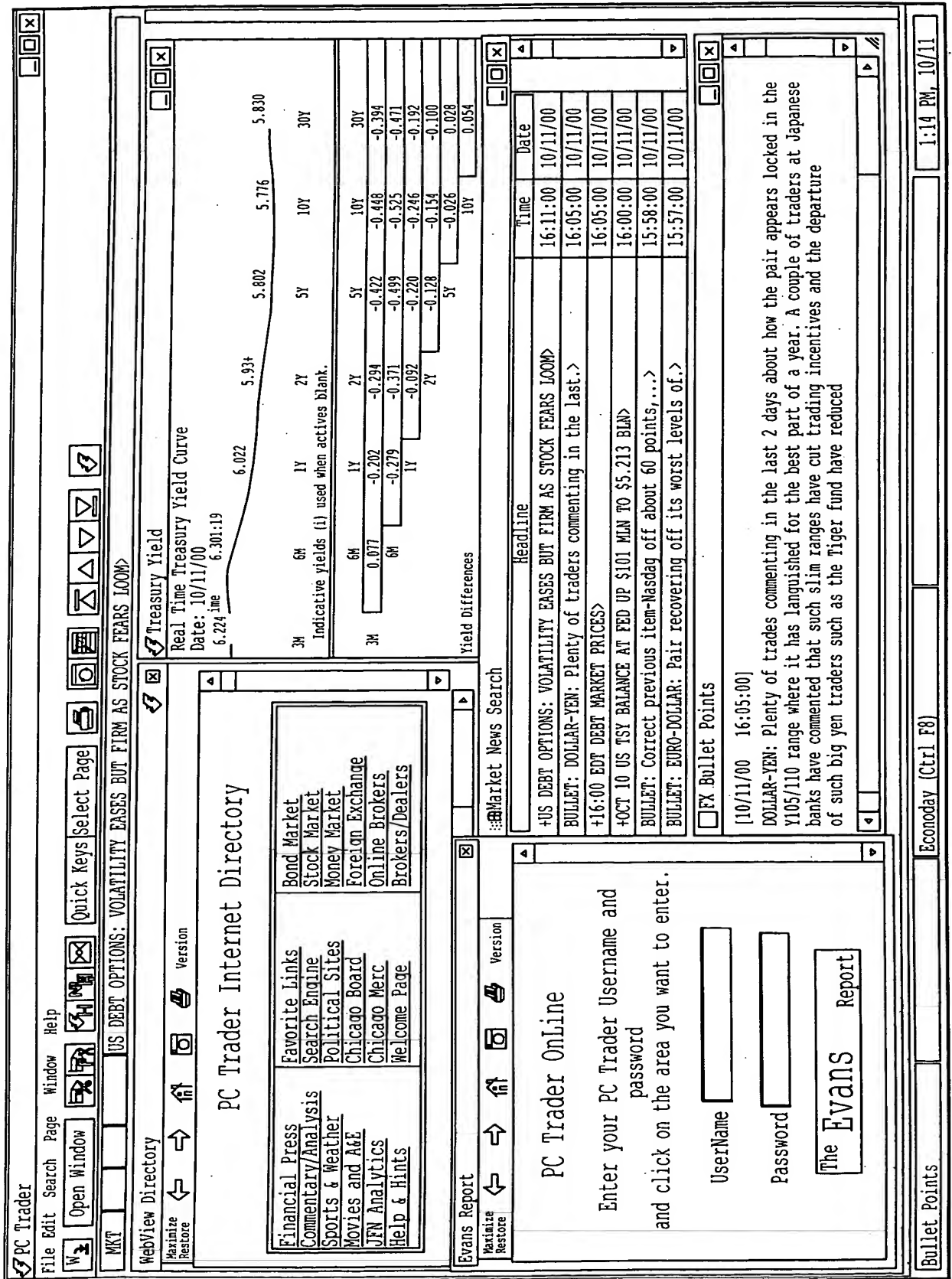


Figure 10

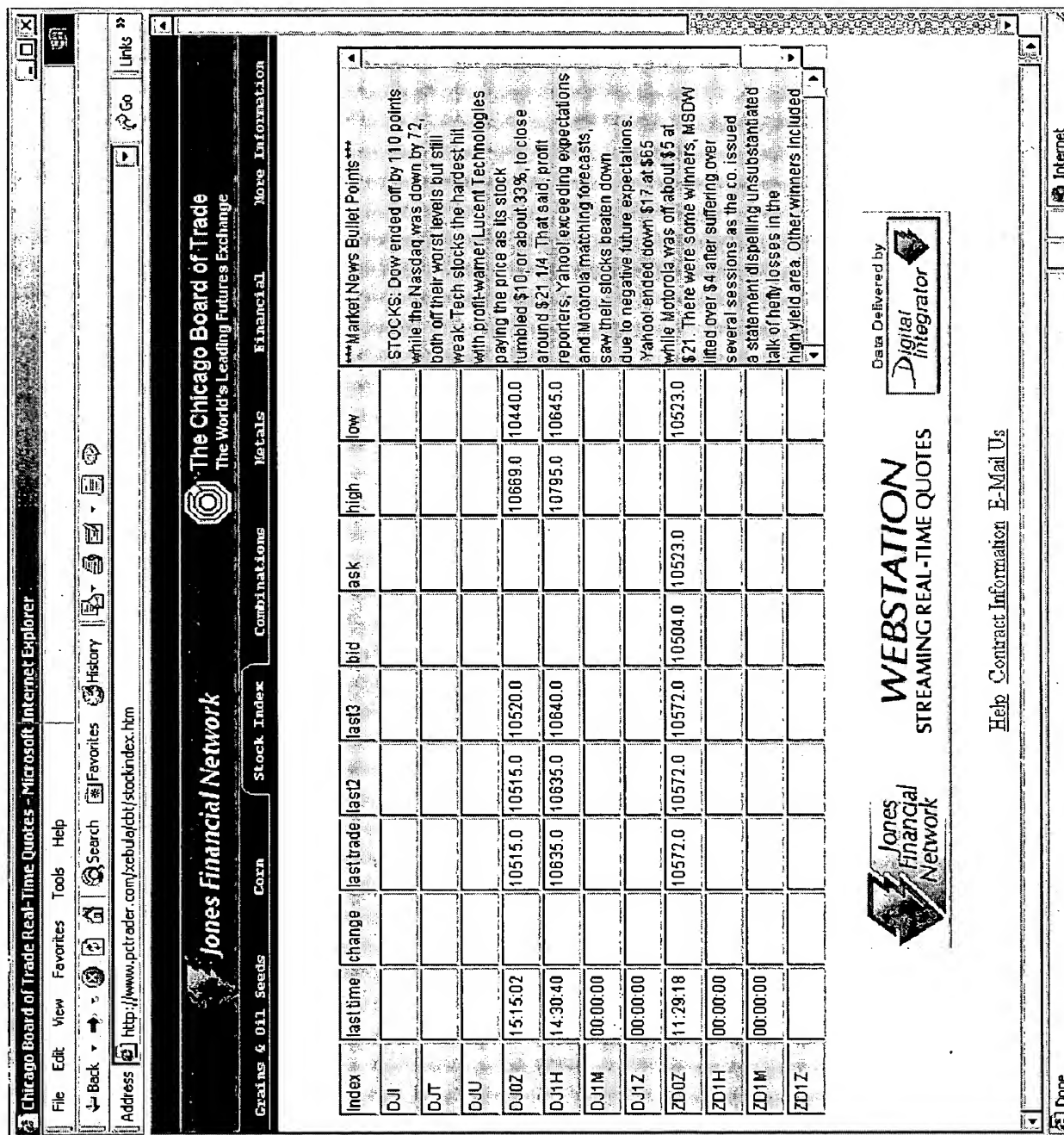


Figure 11

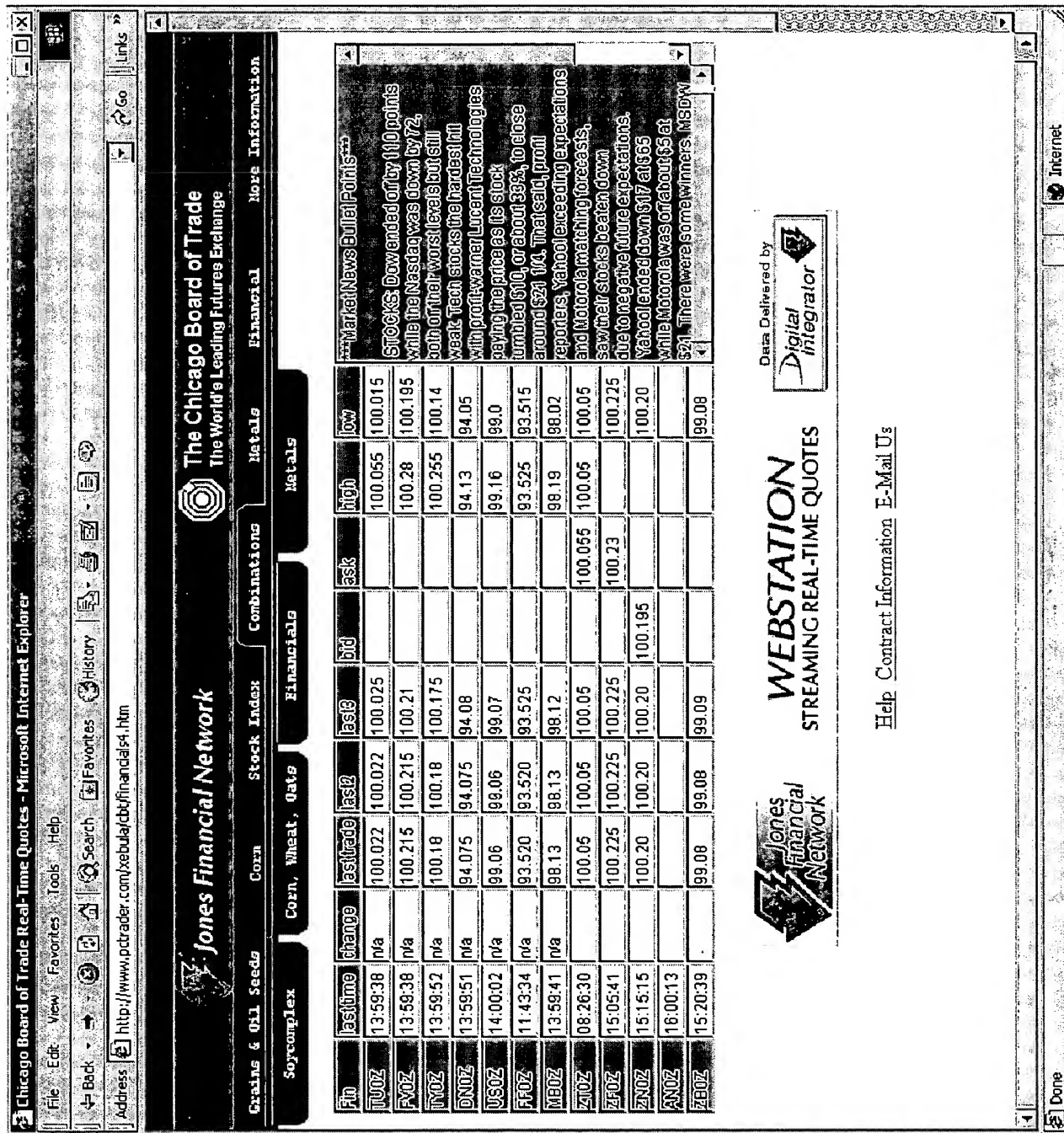


Figure 12

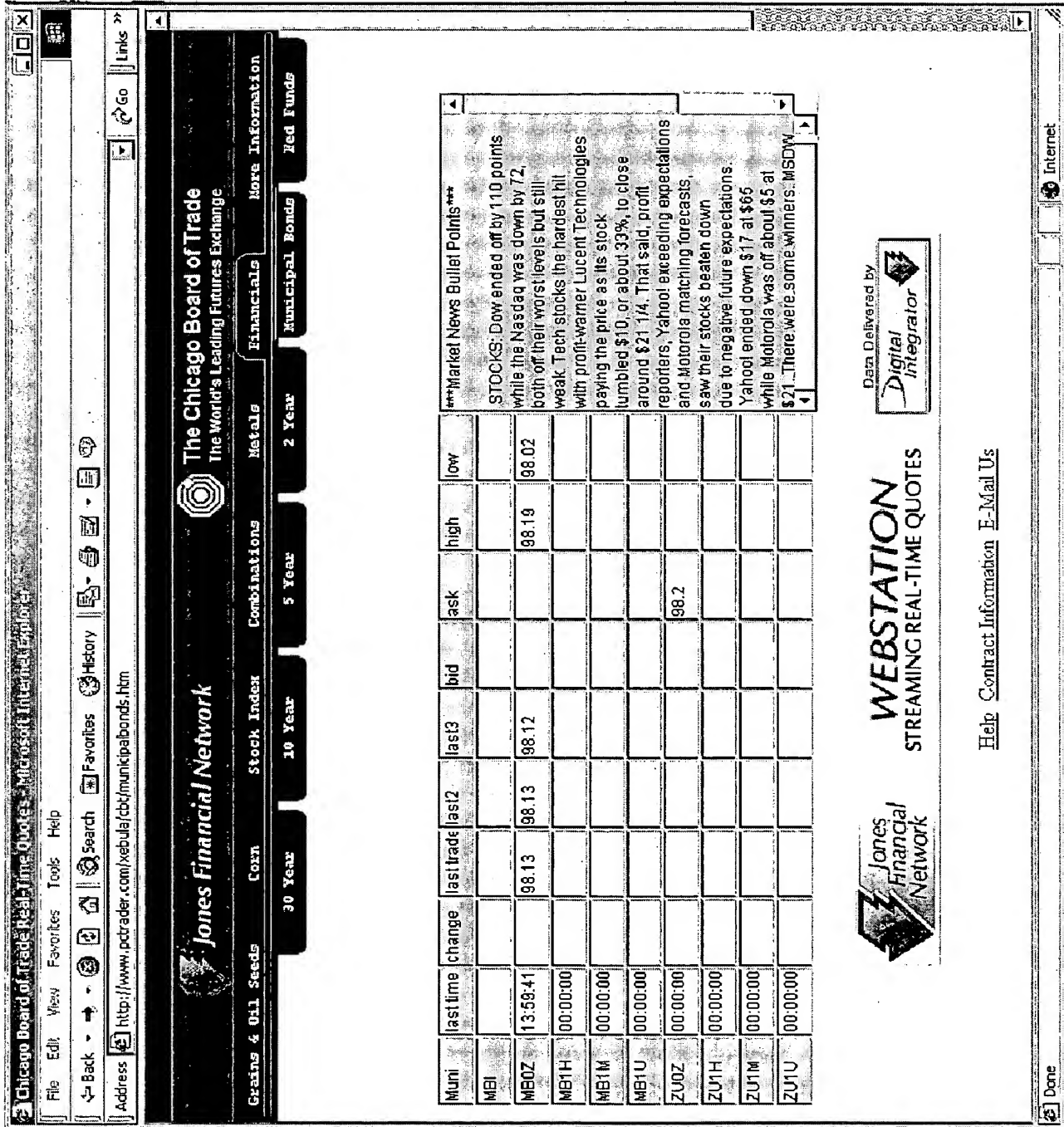


Figure 13

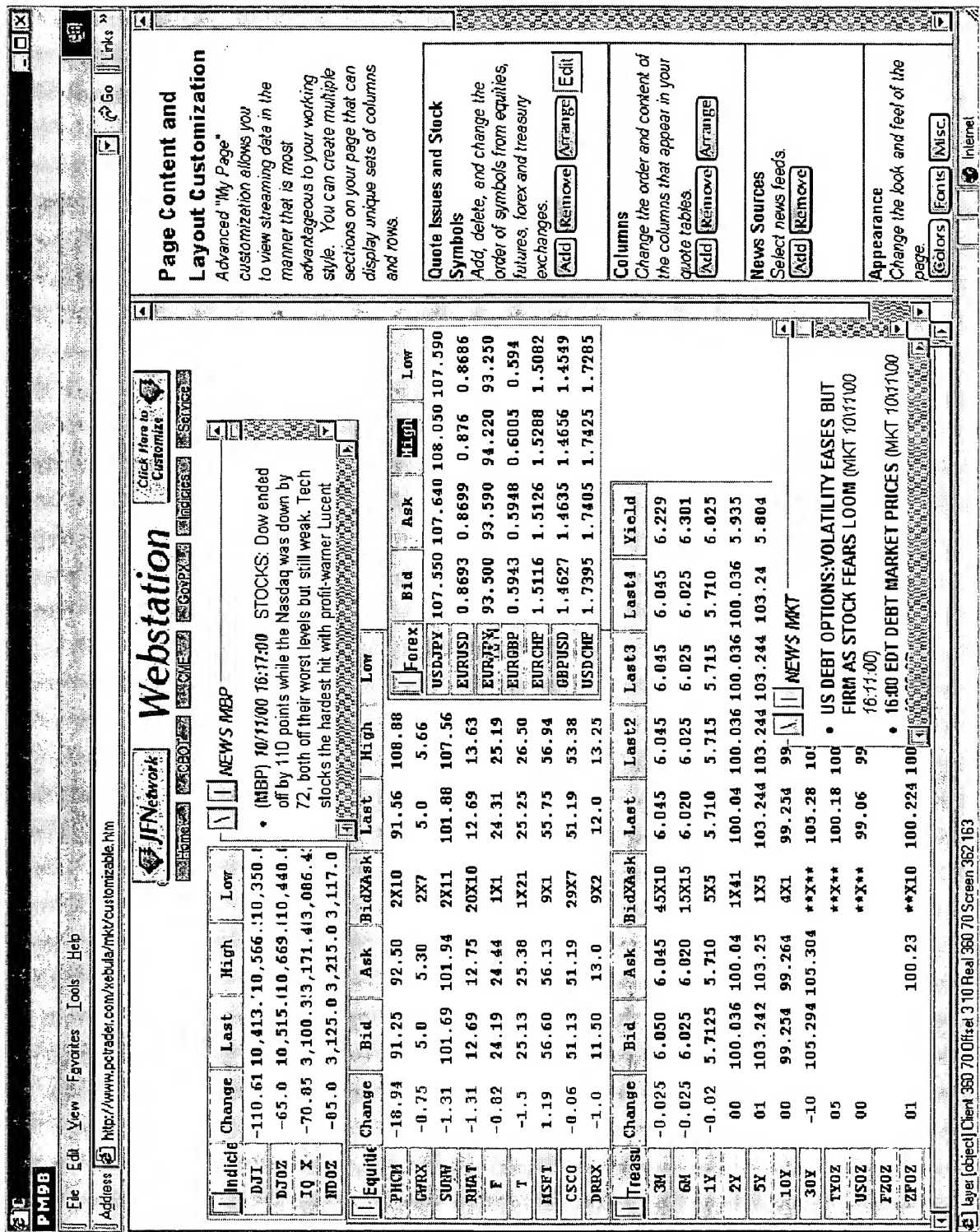


Figure 14

http://www.pctrader.com/xebula/ie/xebulaequities.htm - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Search History Favorites Home

Address http://www.pctrader.com/xebula/ie/xebulaequities.htm

Go Links

Logout

LOGIN

Symbol	last trade	ask	bid	ask	bid	Volume
CSCO						
MSFT						
INTC						
ORCL						
COMS						
JDS Uniphase						
NXTL						
Qualcomm						
Veritas						
VRTS						
DELL						
WDCM						
AMAT						
XLNX						
Siebel Sys						
SEBL						
Yahoo						
DJMO						
DJMO2						
DJ Industrials						
DJ Utilities						
DJ Transportation						
SNE						
F						
AT&T						
WMT						
MCD						
Hewlett-Packard						

MARKET NEWS INTERNATIONAL REAL TIME HEADLINES

MARKET NEWS FIXED INCOME AND FOREX BULLET POINTS

Done Internet

Figure 15

http://www.pctrader.com/xebula/bk/xebulapw.htm - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Search Favorites History

Address http://www.pctrader.com/xebula/bk/xebulapw.htm

BK NEWSWIRES

- Economy up 5.5% in first quarter. "Slowdown continues..."
- High grade spreads widen sharply on WorldCom news.
- Tys curve inverts by -2.0 bps to -58.2 from -56.2. Look our below. See comments at RichCheap.com.
- AllBenchmarks.com publishes new index for bellweather issues.
- Butterflies: traders prepare for supply in 5/10/20.
- Tech stocks: IPO market heats up for midlevelware stocks.
- RichCheap.com: high yield bonds on NYSE look attractive.
- Thirty-eight trading systems sign up on first day.
- Agency spreads are narrowest in 90 days.

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GMT	Last	Chg	High	Low	Close	Time
USOU						
TYOU						
DNOU						
FYOU						
TUOU						
Spnd						
NOB						
TAG						

Spot FX	Bid	Ask	High	Low
USDJPY				
EURUSD				
EURGBP				
GBPUSD				
EURJPY				

Done Internet



207,12.48.31

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